

engineering data service 6888

MECHANICAL DATA

Bulb	T-9
Base	B8-26, Small Wafer Octal with Sleeve, 8-Pin or Low Loss Phenolic Small Wafer Octal with External Barriers and Sleeve, 8-Pin
Outline	9-12
Basing	8N
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 (±5%) Volts
Heater Current	800 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	200 Volts
Heater Positive with Respect to Cathode	25 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

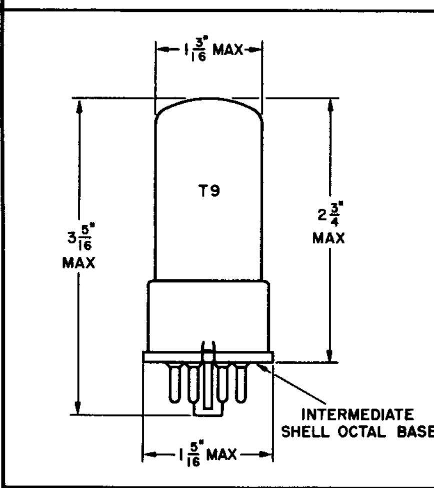
Grid No. 1 to Plate	0.70 μμf
Grid No. 3 to Plate	3.80 μμf
Grid No. 1 Input: g1 to (g2+g3+p+h+k)	12.0 μμf
Grid No. 3 Input: g3 to (g2+g1+p+h+k)	6.0 μμf
Output: p to (g1+g2+g3+h+k)	6.5 μμf
Grid No. 1 to Grid No. 3	0.65 μμf

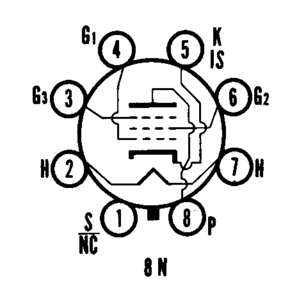
RATINGS (Absolute Maximum)

DC Plate Voltage	250 Volts	Max.
Positive DC Grid No. 3 Voltage	250 Volts	Max.
Negative DC Grid No. 3 Voltage	250 Volts	Max.
Positive DC Grid No. 2 Voltage	150 Volts	Max.
Negative DC Grid No. 1 Voltage	100 Volts	Max.
Peak Positive Plate Voltage	500 Volts	Max.
Peak Positive Grid No. 1 Voltage	30 Volts	Max.
Peak Positive Grid No. 2 Voltage	150 Volts	Max.
Plate Dissipation	8.0 Watts	Max.
Grid No. 2 Dissipation	2.0 Watts	Max.
Grid No. 3 Dissipation	2.0 Watts	Max.
DC Cathode Current	80 Ma	Max.
Peak Cathode Current[1]	600 Ma	Max.
Positive DC Grid No. 1 Current	5.0 Ma	Max.
External Grid No. 1 Circuit Resistance		
Fixed Bias Operation	0.5 Megohm	Max.
Bulb Temperature (Hottest Point)	130 Degrees C	

QUICK REFERENCE DATA

The Sylvania Type 6888 is a dual control, computer pentode designed for long life and low failure rates. It is utilized in pulse amplifier, core driver and coincidence circuits.





SYLVANIA ELECTRIC PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

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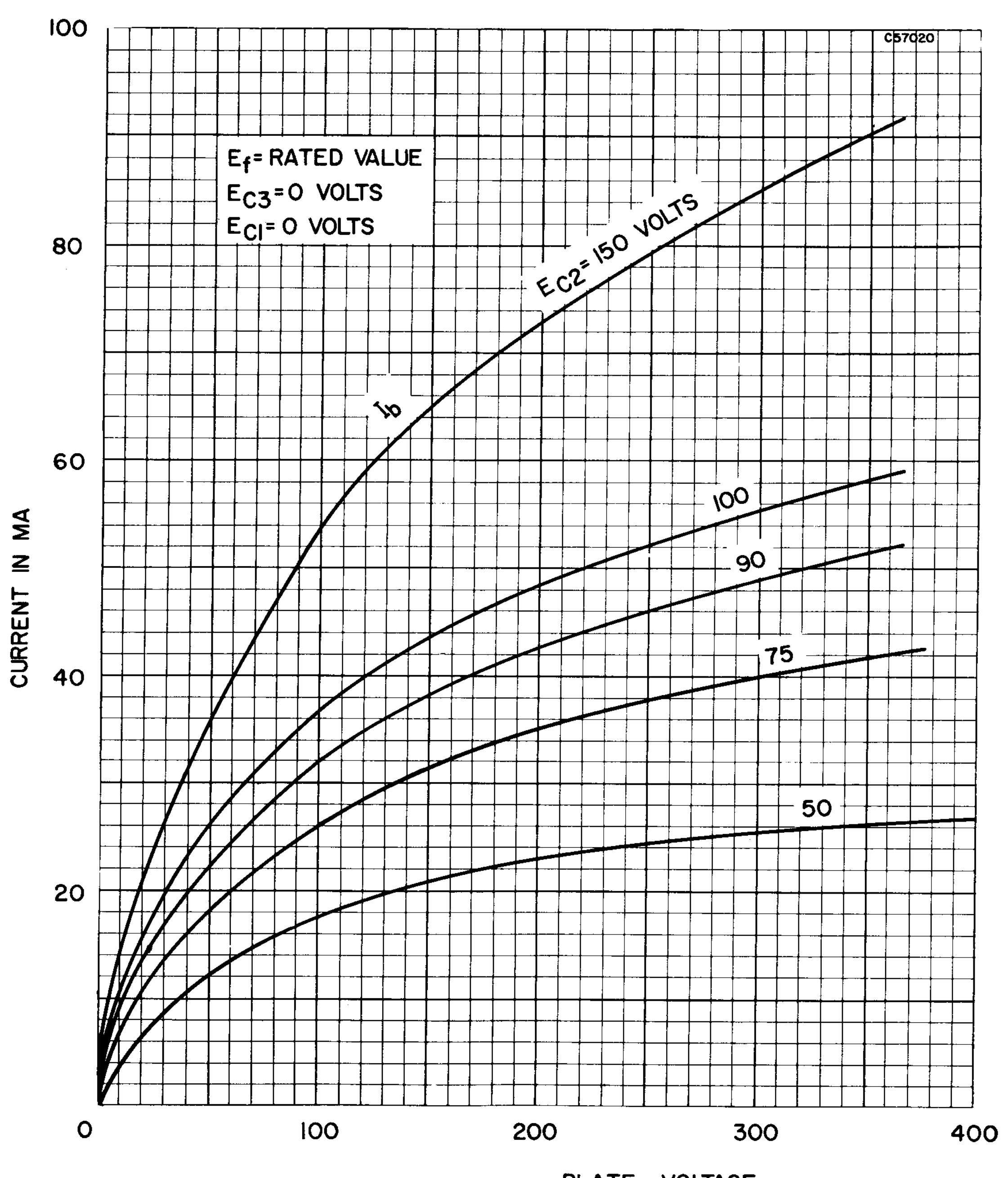
AVERAGE CHARACTERISTICS

Plate Voltage	150 Volts
Grid No. 3 Voltage	0 Volts
Grid No. 2 Voltage	90 Volts
Grid No. 1 Voltage[2]	
Plate Current	37.5 Ma
Grid No. 2 Current	19 Ma
Grid No. 1 Cutoff Voltage Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = 0; Ec1/Ib = 30 μa	-13.8 Volts
Grid No. 1 Cutoff Voltage Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = 0; Ec1/Ib = 2.5 ma	-9.4 Volts
Grid No. 3 Cutoff Voltage Eb = 150 Vdc; Ec1 = 0; Ec2 = 90 Vdc; Ec3/Ib = 2.0 ma	-8.6 Volts
Triode Amplification Factor Eb = Ec2 = 90 Vdc; Plate and Grid No. 2 Tied; Ec1 = -2.0 Vdc; Ec3 = 0	10
Tetrode Cutoff Voltage Eb = Ec3 = 250 Vdc; Grid No. 3 and Plate Tied; Ec2 = 90 Vdc; Ec1/Ib = 2.0 ma	-11.5 Volts
Pulse Plate Current Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = +10 Vdc; Ec1 = +10 v tp = 5 μsec; prr = 2000 pps	145 Ma
Pulse Screen Current Eb = 150 Vdc; Ec2 = 90 Vdc; Ec3 = +10 Vdc; Ec1 = +10 v tp = 5 μsec; prr = 2000 pps	17 Ma

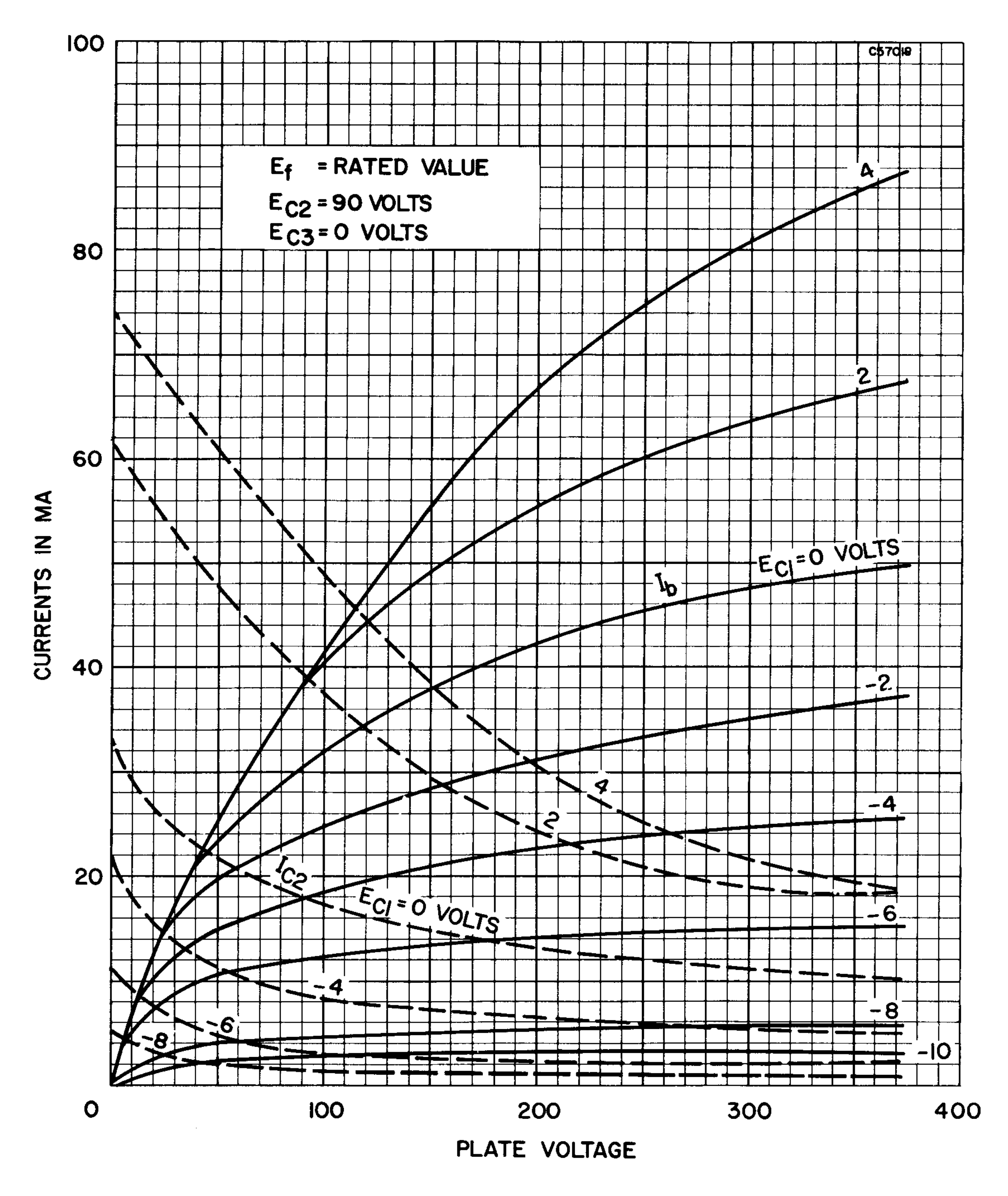
NOTES:

1. *This rating applies to a current pulse whose duration is 0.1 μsec, whose duty factor is 20% and the averaging time of which is 1.0 milsec.*
2. *Tie grid No. 1 to +90 Vdc through a 0.47 megohm resistor.*

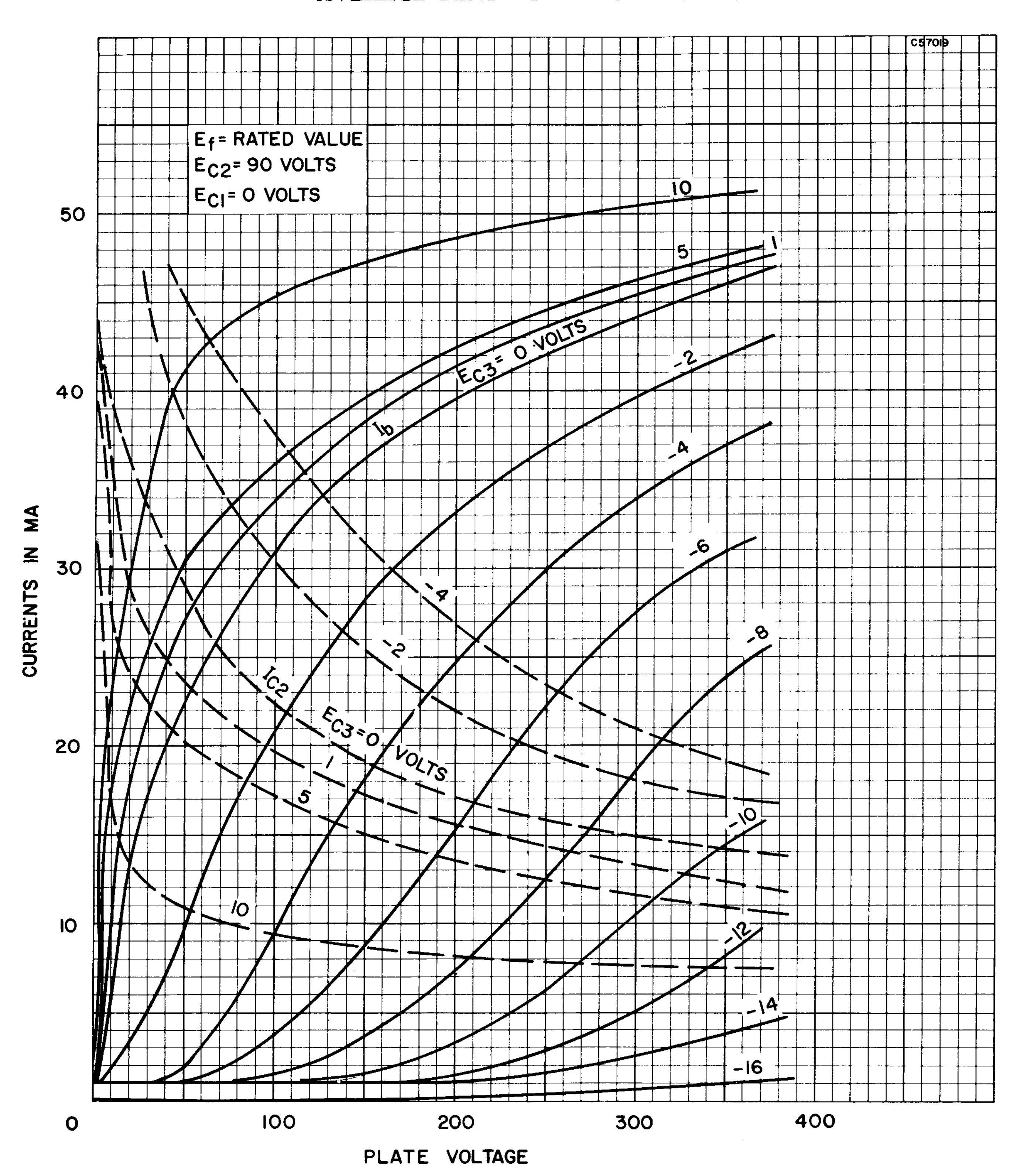
AVERAGE PLATE CHARACTERISTICS



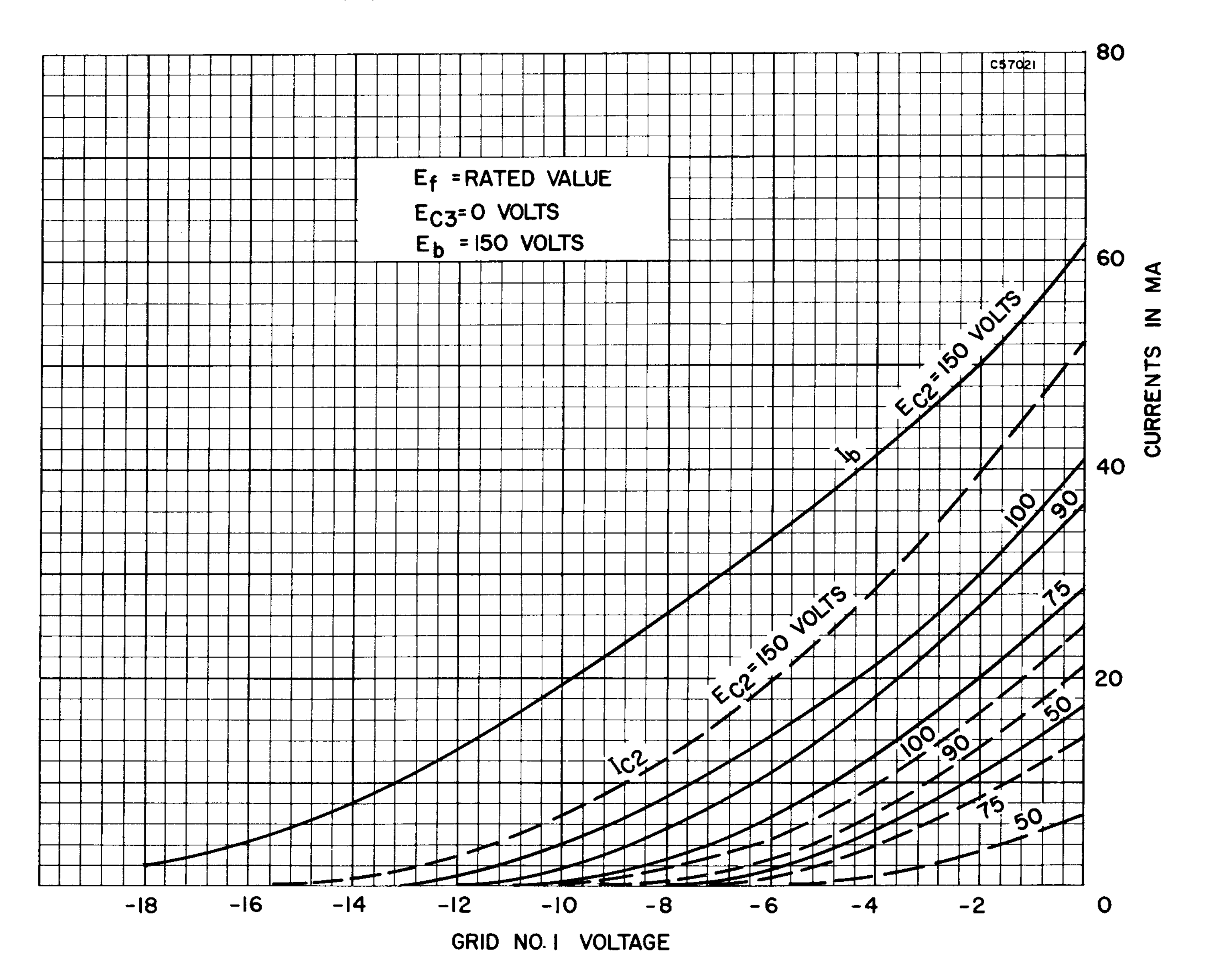
AVERAGE PLATE CHARACTERISTICS



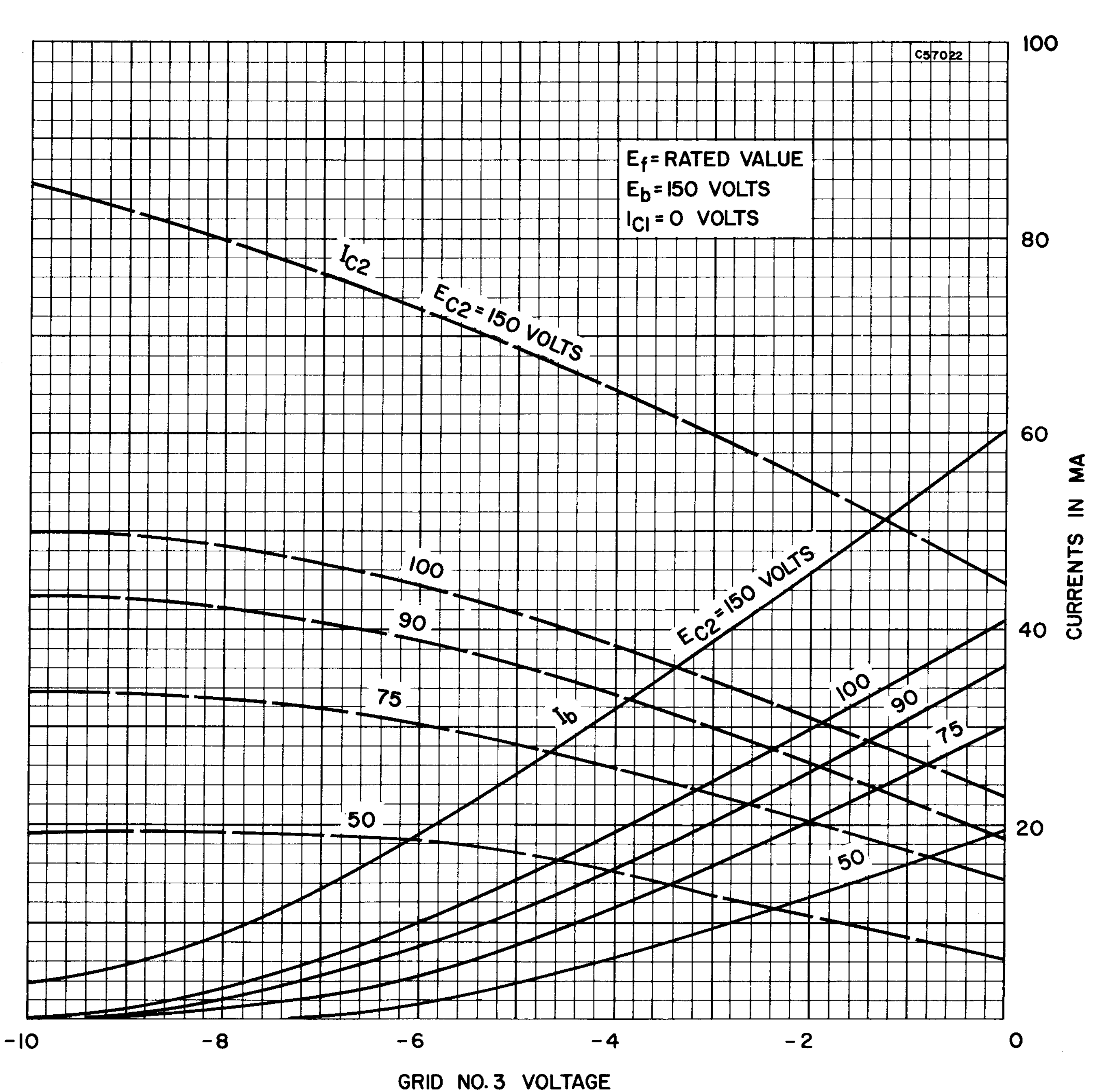
AVERAGE PLATE CHARACTERISTICS



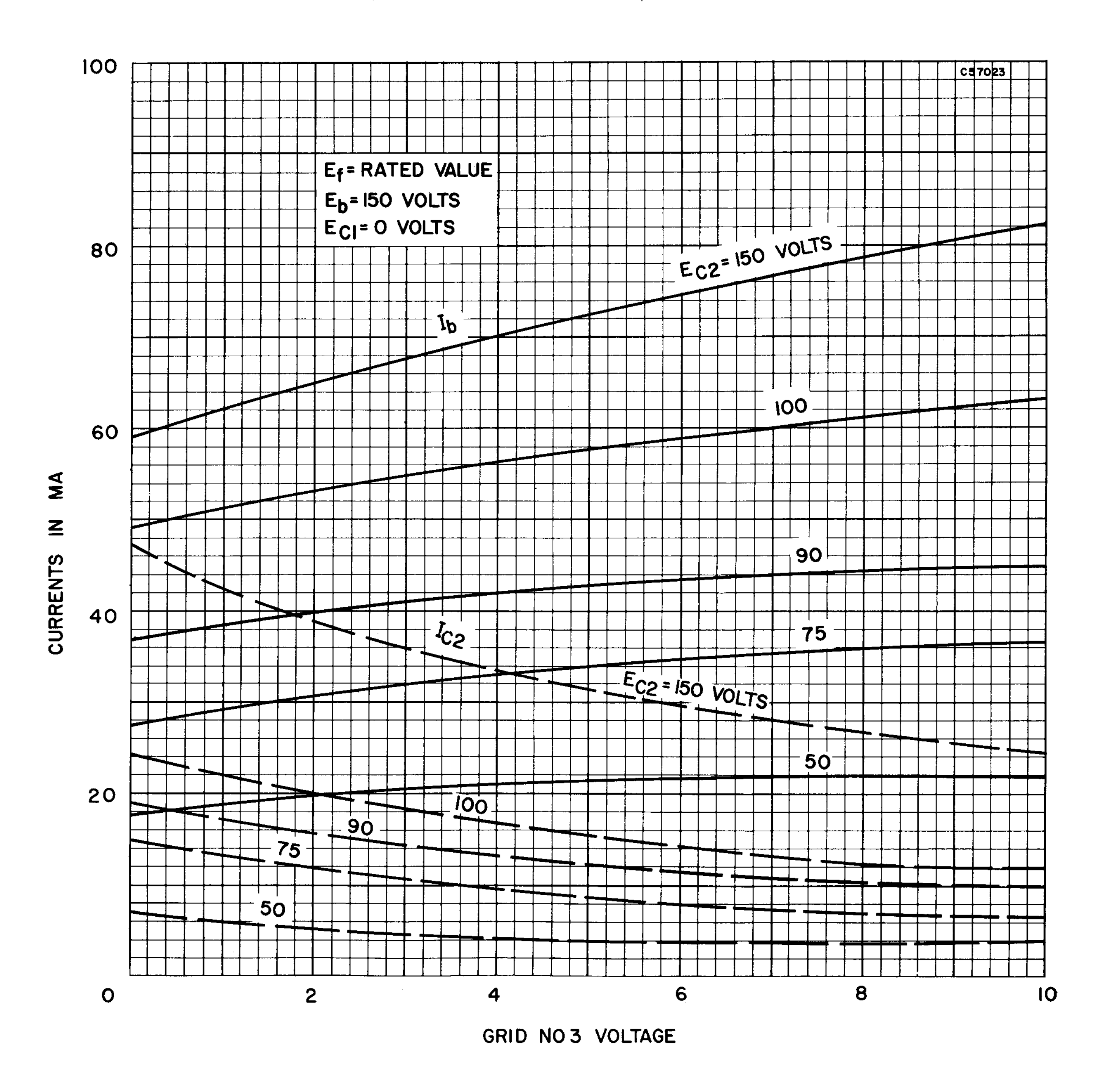
AVERAGE TRANSFER CHARACTERISTICS



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